### 查询ZMM130供应商 ZMM 1 ... ZMM 200

#### Silicon Planar Zener Diodes

in MiniMELF case especially for automatic insertion. The Zener voltages are graded according to the international E 24 standrad. Smaller voltage tolerances and higher Zener voltages on request.

Cathode Mark

These diodes are also available in DO-35 case with the type designation BZX55C...

Glass case MiniMELF

These diodes are delivered taped.

Weight approx. 0.05g Dimensions in mm

Details see "Taping".

### **Absolute Maximum Ratings** $(T_a = 25 \degree C)$

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at T <sub>amb</sub> = 25 °C	P <sub>tot</sub>	5001)	mW
Junction Temperature	T <sub>i</sub>	175	°C
Storage Temperature Range	T <sub>s</sub>	-55 to + 175	°C

#### Characteristics at T<sub>amb</sub> = 25 °C

	Symbol	Min.	Тур.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	-	-	0.31)	K/mW
1) Valid provided that electrodes are kept	at ambient temperature.				





Туре	Zener Voltage range <sup>1)</sup>		Dynamic resistance		Reverse leakage current		Temp. coefficient of Zener Voltage			
	V <sub>Znom</sub>	Iz	r for V <sub>ZT<sup>2)</sup></sub>	r <sub>zjT</sub>	r <sub>zjK</sub> a	t I <sub>zk</sub>	T <sub>a</sub> =25°C T <sub>a</sub> =125°C		$I_R$ at $V_R$	$TK_{vz}$
	V	mA	V	Ω	Ω	mA	μΑ	μΑ	V	%/K
ZMM1 <sup>3)</sup>	0.75	5	0.7 0.8	<8	<50	1				-0.260.23
ZMM2.0	2.0	5	1.9 2.1	<85	<600	1	<100	<200	1	-0.09 <b>-</b> 0.06
ZMM2.2	2.2	5	2.08 2.33	<85	<600	1	<75	<160	1	-0.090.06
ZMM2.4	2.4	5	2.28 2.56	<85	<600	1	<50	<100	1	-0.090.06
ZMM2.7	2.7	5	2.5 2.9	<85	<600	1	<10	<50	1	-0.090.06
ZMM3.0	3.0	5	2.8 3.2	<85	<600	1	<4	<40	1	-0.080.05
ZMM3.3	3.3	5	3.1 3.5	<85	<600	1	<2	<40	1	-0.080.05
ZMM3.6	3.6	5	3.4 3.8	<85	<600	11	<2	<40	1	-0.080.05
ZMM3.9	3.9	5	3.7 4.1	<85	<600	1	<2	<40	1	-0.080.05
ZMM4.3	4.3	5	4.0 4.6	<75	<600	1	<1	<20	1	-0.060.03
ZMM4.7	4.7	5	4.4 5.0	<60	<600	1	<0.5	<10	1 1	-0.05 +0.02
ZMM5.1	5.1	5	4.8 5.4	<35	<550	1	<0.1	<2	1	-0.02 +0.02
ZMM5.6	5.6	5	5.2 6.0	<25	<450	1	<0.1	<2	1	-0.05 +0.05
ZMM6.2	6.2	5	5.8 6.6	<10	<200	1	<0.1	<2	2	0.03 0.06
ZMM6.8	6.8	5	6.4 7.2	<8	<150	1	<0.1	<2	3 =	0.03 0.07
ZMM7.5	7.5	5	7.0 7.9	<7	<50	1	<0.1	<2	5	0.03 0.07
ZMM8.2	8.2	5	7.7 8.7	<7	<50	· · · · · · · · · · · · · · · · · · ·	<0.1	<2	6.2	0.03 0.08
ZMM9.1	9.1	5	8.5 9.6	<10	<50	1	<0.1	<2	6.8	0.03 0.09
ZMM10	10	5	9.4 10.6	<15	<70	1	<0.1	<2	7.5	0.03 0.1
ZMM11	11	5	10.4 11.6	<20	<70	1	<0.1	<2	8.2	0.03 0.11
ZMM12	12	5	11.4 12.7	<20	<90	1	<0.1	<2	9.1	0.03 0.11
ZMM13	13	5	12.4 14.1	<26 <30	<110 <110	1	<0.1	<2	11	0.03 0.11 0.03 0.11
ZMM15	15	5	13.8 15.6 15.3 17.1	<40	<170	1	<0.1	<2	12	0.03 0.11
ZMM16 ZMM18	16 18	5 5	16.8 19.1	<50	<170	1	<0.1	<2	13	0.03 0.11
ZMM20	20	5	18.8 21.2	<55	<220	1	<0.1	<2	15	0.03 0.11
ZMM22	22	5	20.8 23.3	<55	<220	1	<0.1	<2	16	0.04 0.12
ZMM24	24	5	22.8 25.6	<80	<220	1	<0.1	<2	18	0.04 0.12
ZMM27	27	5	25.1 28.9	<80	<220	1	<0.1	<2	20	0.04 0.12
ZMM30	30	5	28 32	<80	<220	1	<0.1	<2	22	0.04 0.12
ZMM33	33	5	31 35	<80	<220	1	<0.1	<2	24	0.04 0.12
ZMM36	36	5	34 38	<80	<220	1	<0.1	<2	27	0.04 0.12
ZMM39	39	2.5	37 41	<90	<500	0.5	<0.1	<5	30	0.04 0.12
ZMM43	43	2.5	40 46	<90	<500	0.5	<0.1	<5	33	0.04 0.12
ZMM47	47	2.5	44 50	<110	<600	0.5	<0.1	<5	36	0.04 0.12
ZMM51	51	2.5	48 54	<125	<700	0.5	<0.1	<10	39	0.04 0.12
ZMM56	56	2.5	52 60	<135	<700	0.5	<0.1	<10	43	0.04 0.12
ZMM62	62	2.5	58 66	<150	<1000	0.5	<0.1	<10	47	0.04 0.12
ZMM68	68	2.5	64 72	<200	<1000	0.5	<0.1	<10	51	0.04 0.12
ZMM75	75	2.5	70 79	<250	<1000	0.5	<0.1	<10	56	0.04 0.12
ZMM82	82	2.5	77 87	<300	<1500	0.25	<0.1	<10	62	0.05 0.12
ZMM91	91	1	85 96	<450	<2000	0.1	<0.1	<10	68	0.05 0.12
ZMM100	100	1	94 106	<450	<5000	0.1	<0.1	<10	75	0.05 0.12
ZMM110	110	1	104 116	<600	<5000	0.1	<0.1	<10	82	0.05 0.12
ZMM120	120	1	114 127	<800	<5500	0.1	<0.1	<10	91	0.05 0.12
ZMM130	130	1	124 141	<950	<6000	0.1	<0.1	<10	100	0.05 0.12
ZMM150	150	1	138 156	<1250	<6500	0.1	<0.1	<10	110	0.05 0.12
ZMM160	160	1	153 171	<1400	<7000	0.1	<0.1	<10	120	0.05 0.12
ZMM180	180	1	168 191	<1700	<8500	0.1	<0.1	<10	130	0.05 0.12
ZMM200	200	1	188 212	<2000	<10000	0.1	<0.1	<10	150	0.05 0.12

 $<sup>^{1)}</sup>$  Tested with pulses  $t_p = 20$  ms.

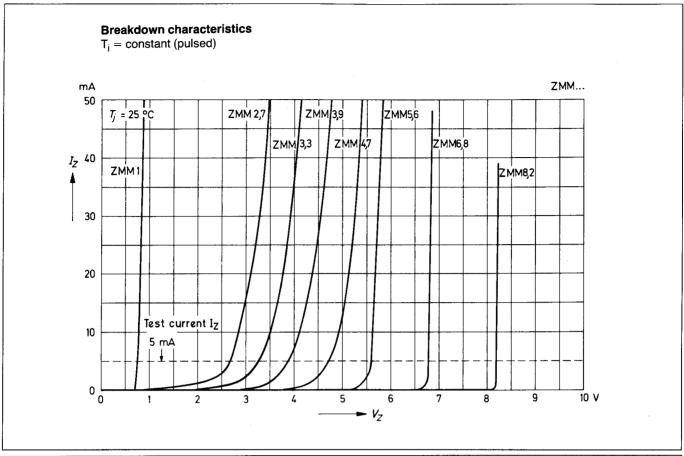


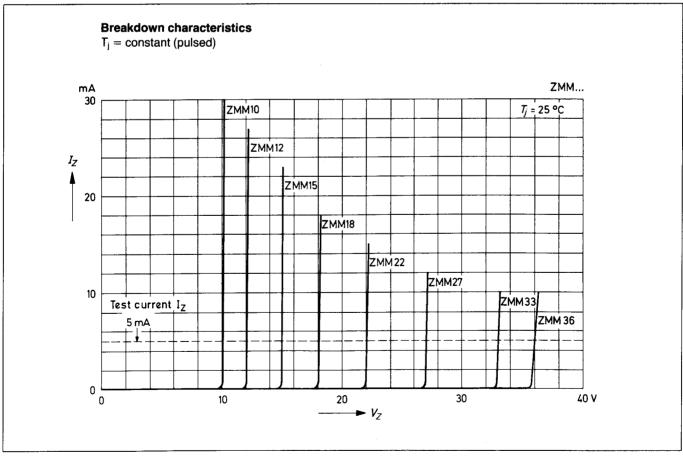
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<sup>&</sup>lt;sup>2)</sup> Valid provided that electrodes are kept at ambient temperature.

<sup>&</sup>lt;sup>3)</sup> The ZMM1 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode electrode to the negative pole.

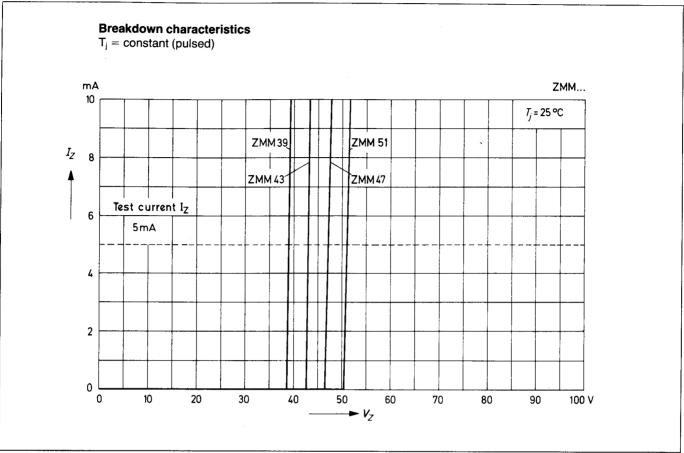


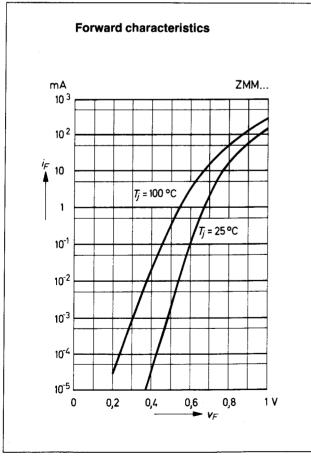


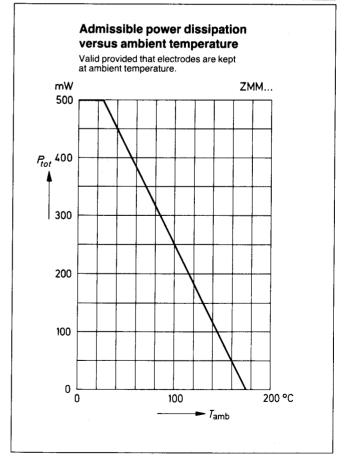








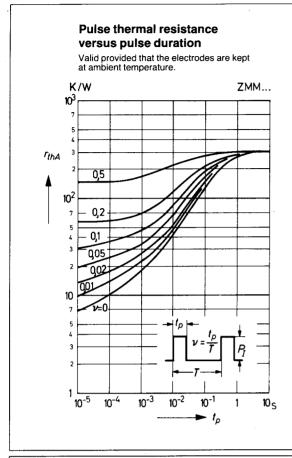


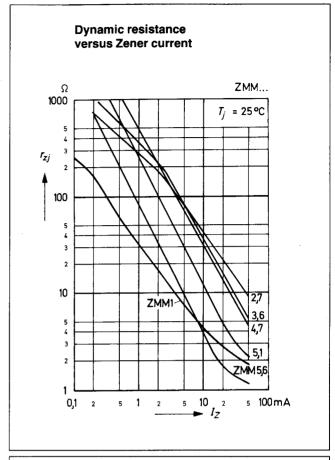


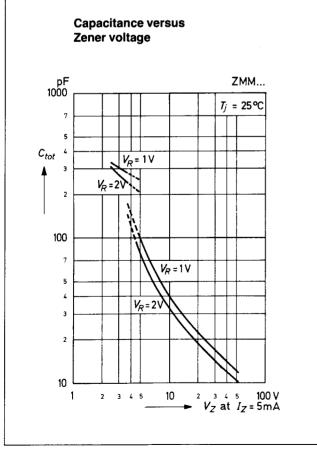


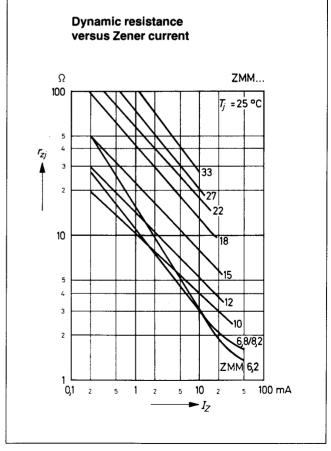
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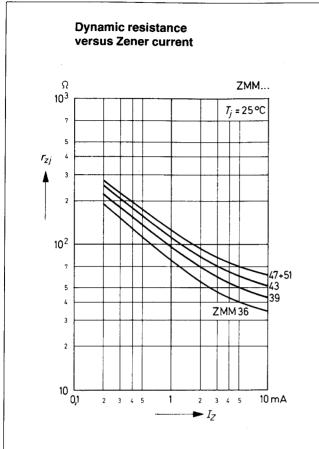


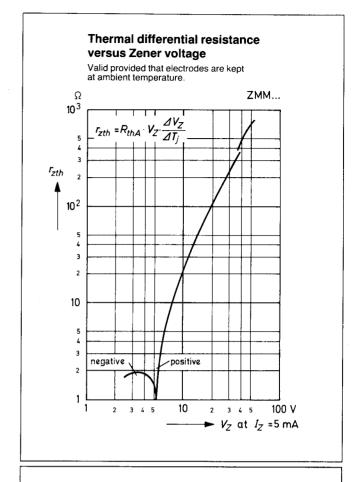


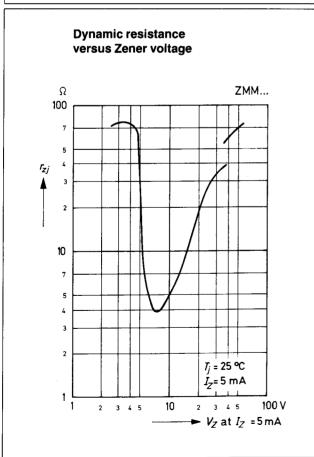


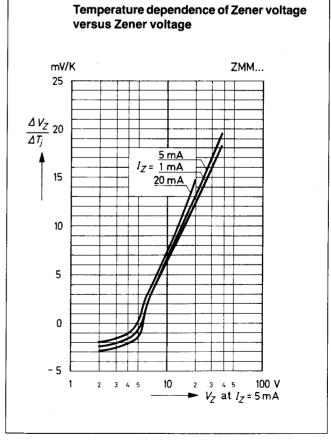








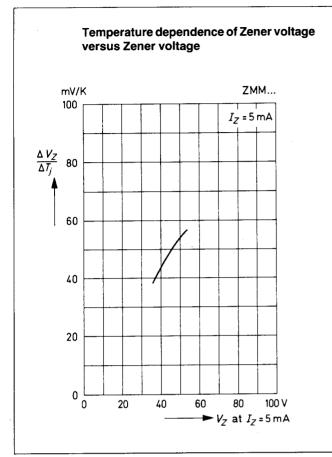


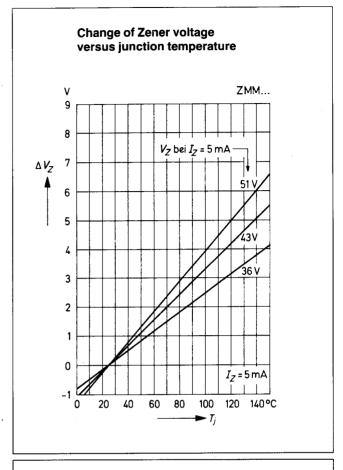


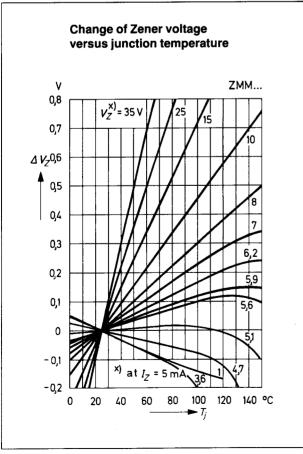


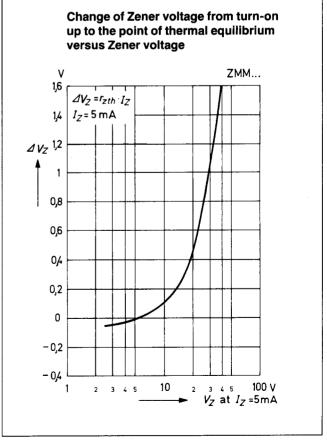






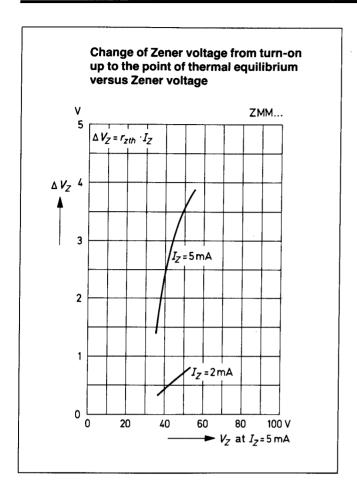














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